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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/502,081		12/14/2004	Peter Dam Nielsen	893-011876-US (PAR)	2106	
2512	7590	09/21/2006		EXAM	EXAMINER	
PERMAN		N	LAM, DUNG LE			
	FPOST ROAD IRFIELD, CT 06824			ART UNIT	PAPER NUMBER	
				2617	2617	
				DATE MAILED: 09/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/502,081	NIELSEN, PETER DAM						
Office Action Summary	Examiner	Art Unit						
	Dung Lam	2617						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,								
WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisors of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 26 Ju	<u>ıly 2006</u> .							
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.						
Disposition of Claims								
4) Claim(s) <u>1-11,13,14 and 16-18</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6) Claim(s) <u>1-11,13,14 and 16-18</u> is/are rejected.								
· ·	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.							
Application Papers								
9) ☐ The specification is objected to by the Examine	r.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex								
Priority under 35 U.S.C. § 119								
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).						
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
See the attached detailed Office action for a list	or the certified copies not receive	u.						
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary							
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)						

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-11, 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews (US Patent No. 5,911,121) in view of Gum (US Patent No. 6,477,390) in further view of White et al. (US Publication No. 2005/0026643).
- 3. Regarding **claim 1**, **Andrews** teaches a method operating electric circuitry included in an exchangeable cover part (44, Fig. 2) for supporting a user interface of a wireless terminal (10, Fig. 2), said wireless communication terminal and said user exchangeable cover part are electrically interconnected by means of an electrical connector (60, Fig. 3) having a plurality of pins (C1, C2, C3, Fig. 4), said method comprises: identifying a type of said user exchangeable cover part and (Col. 3, line 34-39); user exchangeable cover part and (Col. 3, line 34-39); operating at least one of said connector pins in an identification state for sensing a value included in an identification cover type indicator (Col. 3, line 34-39); and afterwards operating at least one of the connector pins in an operation state for operating the electric circuitry of said user exchangeable cover part (Col. 3, line 41 Col. 4, line 22, Table 1). However, Andrews does not explicitly teach a user-

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defined mapping of a set of tones or sound effects to the one of more keys connected to said electric circuitry of said user exchangeable cover. In an analogous art, **Gum** teaches a user-defined mapping of a set of audio tones to one or more keys (Col. 2 L9-14, Col. 4-6 especially C6 In 30-65, Figs. 1, 3-4). Therefore, it would have been obvious for one skill in the art at the time of the invention to combine Andrew's exchangeable cover and Gum's teaching of a user-defined mapping of enunciating certain audio tones to the keys to provide a user-friendly feature in reassuring users in dark environment or sight-impaired users that the correct buttons were pressed (Col. 1 L35-49).

However, Andrews and Gum do not specifically teach that said keys are configured for sound creating purposes comprising sound creating applications. In an analogous art, White teaches that said keys are connected to said electric circuitry (controller, Fig. 13, para. 08, 10, 47, 60, 62, 66) and wherein said keys are configured to create sound creating purposes comprising music composing applications, sound creating applications (create tunes para. 88), system sound creation (sound generation system, para. 134), sending sounds with multimedia messaging service (par. 87) or any combination thereof. White further teaches that the supplier of the fascia may attract buyers by providing additional data such as ringing tones to advertise itself or other companies (para. 60). Therefore, it would have been obvious for one of ordinary skill in the art at the time of invention to combine Andrews's user exchangeable cover and Gum's user-defined mapping of the keys to the tone and White's keys for sound creating applications or tune creation features to make the fascia more interesting and thus more marketable.

4. Regarding claim 2, Andrews, Gum and White teach all the limitations as in claim

- 1. Andrew further teaches said value is a resistor value included in the cover type indicator (Col. 3, line 54 Col. 4, line 10).
- 5. Regarding claim 3, Andrews, Gum and White teach all the limitations as in claim
- 2. White further teaches an operation state is a frequency mode for directing an electrical representation of a ringing signal to the electric circuitry for providing an illumination effect following the ringing signal (para. 102 104). Therefore, it would have been obvious for one of ordinary skill in the art at the time of invention to add the illumination effects following a ringing tone to better inform a user of an incoming call since it is easier to see than hear a notification in a noisy environment.
- 6. Regarding **claim 4**, it is an apparatus claim corresponding to the method claim 1. Therefore it is rejected for the same reasons as claim 1.
- 7. Regarding claim 5, Andrews, Gum and White teach all the limitations as in claim
- 4. Andrews further teaches said connector pins are arranged in line in an equal distance (Fig. 9 and 7).
- 8. Regarding **claim 6**, Andrews, Gum and White teach all the limitations as in claim
- 5. Although they fail to teach that the connector pins are arranged at the rear side of

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the cover part, changing the location from the front to the rear of the cover does not change the functionality of the cover. Therefore, it would have been obvious for one of ordinary skill in the art to place the pins at the rear as a designer's choice to best fit the rest components of the cover.

- 9. Regarding **claim 7**, Andrews, Gum and White teach all the limitations as in claim 6. Andrews teaches the number of connector pins is four. He does not teach the number to be three nor five. However, he teaches that there can be 2<sup>n</sup> combinations of models that can be supported depending on n number of pins. Therefore, it would have been obvious for one of ordinary skill in the art to choose 3 or 5 pins depending on the number of models the supplier would like to support (Col. 4, lines 17-20).
- 10. Regarding **claim 9**, Andrews, Gum and White teach all the limitations as in claim 5. Andrew teaches said value is a resistor value included in the cover type indicator (Col. 3, line 54 Col. 4, line 10).
- 11. Regarding **claim 10**, Andrews, Gum and White teach all the limitations as in claim 6. White teaches the operation state is a frequency mode for directing an electrical representation of a ringing signal to the electric circuitry for providing an illumination effect synchronized with the ringing signal (para. 102 104).

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12. Regarding claim 13, it is a cover that corresponds to the exchangeable cover as claimed in claim 4. Therefore it is rejected for the same reason as claim 4.

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- 13. Regarding claim 16, Andrews, Gum and White teach all the method according to claim 1 further comprising, running a program stored in a memory located in the user exchangeable cover part located in a processor of the user exchangeable cover part (para. 66-72).
- 14. Regarding **claim 17**, it is an apparatus that corresponds to the exchangeable cover method claim 16. Therefore, it is rejected for the same reason as claim 16.
- 15. Regarding claim 18, it is a method that corresponds to the exchangeable cover method claim in 16. Therefore it is rejected for the same reason as claim 16.
- 16. Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews (US Patent No. 5911121) in view of Gum (US Patent No. 6,477,390) further in view of White et al. (US Publication No. 2005/0026643) further in view of **Zhao** (Patent No. 2004/0204135)
- 17. Regarding claims 11 and 14, Andrews, Gum and White teach all the limitations as in claim 4 and 13 respectively. However, they fail to teach said set of tones and/or sound effects comprise music instrument digital interface tones. In an analogous art, Zhao teaches ring tones in the form of MIDI (6, 18, 25, 13 and 18). Therefore, it would have obvious for one of ordinary skill in art at the time of invention to add the MIDI tone as another plus feature into the fascia to make the product more marketable.

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## Response to Arguments

1. Applicant's arguments filed 1-11, 13 and 14-18 filed on 7/26/06 have been fully considered but they are not persuasive.

- 2. Applicant argues that the combination of Andrews, White and Gum fail to teach a user defined mapping of a set of tones or sound effects to the one or more keys. The examiner respectfully disagrees. Gum clearly teaches that the keys can be programmed and assigned with distinctive signal and unique audible signals which reads on the limitation of a "user defined mapping of a set of tones or sounds to one or more keys". For example when a key "8" is pressed, the user may hear eight beeps or when a user presses a number "5" key a user may hear a voice that says "five" which are made possible as a result of programming and key mapping/assigning (Col. 6 Ln 30 54). Therefore, applicant's argument regarding the missing limitation regarding the "user defined mapping of sound to one or more keys" is moot.
- 3. Applicant further argues the examiner is using hindsight and that there is no motivation to combine Andrews, Gum and White to achieve the user defined mapping of a set of tones to achieve what the applicant claimed. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d

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1392, 170 USPQ 209 (CCPA 1971). Gum clearly teaches that the kind of "talking" keys allows users to better navigate through keypad. (C6 Ln 51-56). Therefore, it is clear that one of ordinary skill in the art would use this combination to allow the user to individualize his/her phone's looks and feel.

4. Applicant further argues that the processor is not on the fascia. The examiner disagrees. White teaches that the passive data storage 54 may incorporate a microcontroller that reads out data from memory 59 which are part of the passive data storage 17 (see paragraph 67). As White pointed out in paragraph 38, the passive data storage 17 is part of the fascia. Therefore, applicant's argument that White does not discloses a processor is on the fascia is moot.

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### Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Lam whose telephone number is (571) 272-6497. The examiner can normally be reached on M - F 9 - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DL

LESTER G. KINCAID SUPERVISORY PRIMARY EXAMINER

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